Bob Roddy

Attached is what I believe would be a fair and equitable method to calculate the additional cost to the P/Chem Plant to treat the well water from Cerro's dewatering operation for the construction of the stormwater handling system.

Please review and we can discuss after the holidays when I return from my vacation.

## GROUND WATER DEWATERING TREATMENT COSTS

Flow From East Outfall

Sludge from East Outfall

Nov. Total 1989=

4.885 mgd

Nov. Total 1989 =

26222 lb/mo

Daily Average= 0.140 mgd

Daily Average =

749 lb/day

Dead Creek Overflow Sludge Concentration=

745 mg/l

(measured by P/Chem Plant)

P/Chem Plant Flow (See Attached)

Avg(11/1/89-11/26/89) =

4.928 mgd

Avg(11/27/89-12/10/89) =

5.235 mgd

Avg. Increase Flow = -

0.307 mgd

Due to Wells

Feo = Flow from East Outfall

Fw = Flow From Wells

Fdc = Flow From Dead Creek

Seo = Sludge from East Outfall=

749 lb/day

Sw = Sludge From Wells

Sdc = Sludge From Dead Creek =

2775 lb/day

(0.447 mgd X 8.34 X 745 mg/l)

Feo + Fw = Fdc

Seo + Sw = Sdc

(0.140 + 0.307) = 0.447 mgd

Sw= 2775 - 749=

2026 lb/day additional Sludge

Flow Cost from Schillinger =

\$382 /Million Gal.

Sludge Cost from Schillinger=

\$0.30 /lb

AB Flow Cost from Schillinger=

\$2,376 /mgd

AB Credit from Schillinger =

\$950 /day

Cerro Additional Cost for Flow = (0.307 X \$382/MG) =

\$117 /day

Cerro Additional Cost for Sludge=(2026 X \$0.30/lb) =

\$608 /day

Cerro Additional Cost for AB Flow=

Not included

AB Credit =

Not included

\$112,375

Total Additional Charge =

\$725 /day

Charge for 155 days (11/27/89-5/1/89) =

	Dead Creek Overflow Sludge Production	P/Chem Plant 11/1/89 2	Flow 4.7 4.4
	mg/l	3	4.3
12/5/89 12/6/89 12/7/89 12/8/89 12/9/89 12/10/89 12/11/89 12/12/89 12/13/89	954 787 651 485 621 512 1002 862 831	4 5 6 7 8 9 10 11 12 13	4.6 4.8 5.5 5.0 5.7 4.9 5.3 5.0 6.2 4.8
Average	745	15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 12/1/89 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	5.7855.334.6604.2496.1775.7825.1

Avg(11/1/89-11/26/89) Avg(11/27/89-12/19/89) 4.928 5.235

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